

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL.

- a. This section provides a general explanation of all maintenance and repair functions authorized at the various maintenance levels.
- b. The Maintenance Allocation Chart (MAC) in Section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance levels.
- c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from Section II.
- d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2. MAINTENANCE FUNCTIONS.

Maintenance functions will be limited to and defined as follows:

- a. **Inspect.** To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel).
- b. **Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- c. **Service.** Operations required periodically to keep an item in proper operating condition [e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases].
- d. **Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.
- e. **Align.** To adjust specified variable elements of an item to bring about optimum or desired performance.
- f. **Calibrate.** To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- g. **Remove/Install.** To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- h. **Replace.** To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and is shown as the third position of the SMR code.
- i. **Repair.** The application of maintenance services, including fault location/troubleshooting, removal/installation, and disassembly/assembly procedures and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

B-2. MAINTENANCE FUNCTIONS (Con't).

j. **Overhaul.** That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. **Rebuild.** Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original equipment manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipment/components.

B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

a. **Column (1) - Group Number.** Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be "00".

b. **Column (2) - Component/Assembly.** Column 2 contains the names of components, assemblies, subassemblies, and module for which maintenance is authorized.

c. **Column (3) - Maintenance Function.** Column 3 lists the functions to be performed on the item listed in Column 2 (For a detailed explanation of these functions, refer to paragraph B-2).

d. **Column (4) - Maintenance Level.** Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the level of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate work time figures will be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the Maintenance Allocation Chart. The symbol designations for the various maintenance levels are as follows:

- C - Unit (Operator or Crew)
- O - Organizational Maintenance
- F - Direct Support Maintenance
- H - General Support Maintenance
- D - Depot Maintenance

e. **Column (5) - Tools and Equipment.** Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and support equipment required to perform the designated function.

f. **Column (6) - Remarks.** This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in Section IV.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

- a. **Column (1) - Tool or Test Equipment Reference Code.** The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.
- b. **Column (2) - Maintenance Level.** The lowest level of maintenance authorized to use the tool or test equipment.
- c. **Column (3) - Nomenclature.** Name or identification of the tool or test equipment.
- d. **Column (4) - National/NATO Stock Number.** The National or NATO Stock Number of the tool or test equipment.
- e. **Column (5) - Tool Number.** The manufacturer's part number.

B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

- a. **Column (1) - Reference Code.** The code recorded in the MAC, Section II, Column 6.
- b. **Column (2) - Remarks.** This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II, Column 6.

Section II. MAINTENANCE ALLOCATION CHART

(1) Group Number	(2) Component/ Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment	(6) Remarks
			Unit		DS	GS	Depot		
			C	O	F	H	D		
01	Precision Gunnery System (PGS)	Inspect	0.2					1	A
		Test	0.1	0.2					
		Remove/ Install Repair Overhaul	0.7		1.5		8.0	1,2 3	A,B C
0101	Transceiver Unit	Test		0.2	1.0			1,2	A,B
		Remove/ Install	0.1						
		Replace Repair		0.2	1.0	3.0		1,2,3	A B,C
0102	System Cables and Shorting Plug	Test		0.3				1	A
		Remove/ Install	0.1						
		Replace Repair		0.2		0.5		1,2	A B

Section II. MAINTENANCE ALLOCATION CHART (Con't)

(1) Group Number	(2) Component/ Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment	(6) Remarks
			Unit		DS	GS	Depot		
			C	O	F	H	D		
0103	R/F Retro Detector/ Hull Defilade Detector/RSI Antenna Assembly	Test	0.1	0.2	0.4			1,2	A,B
		Remove/ Install		0.2					A
		Replace Repair			0.9				1,2 B
0104	L/F Retro Detector/ Hull Defilade Detector Assembly	Test	0.1	0.2	0.5			1,2	A,B
		Remove/ Install		0.2					A
		Replace Repair			0.7				1,2 B
0105	Rear Retro Detector/ Hull Defilade Detector Assembly	Test	0.1	0.2	0.4			1,2	A,B
		Remove/ Install		0.2					A
		Replace Repair			0.7				1,2 B
0106	Vehicle Interface Unit	Test	0.1	0.2	0.5			1,2	A,B
		Remove/ Install		0.2					A
		Replace Repair			0.9				1,2 B
0107	Control Panel	Test	0.1	0.2	0.5			1,2	A,B
		Remove/ Install		0.2					A
		Replace Repair			0.7				1,2 B
0108	TDRS Memory Card	Test	0.1	0.2	0.5			1,2	A,B
		Remove/ Install		0.2					A
		Replace							
0109	Expansion Unit	Test	0.1	0.2	0.5			1	A,B
		Remove/ Install		0.2					A
		Replace Repair			0.7				1,2 B

Section II. MAINTENANCE ALLOCATION CHART (Con't)

(1) Group Number	(2) Component/ Assembly	(3) Maintenance Function	(4) Maintenance Level					(5) Tools and Equipment	(6) Remarks
			Unit		DS	GS	Depot		
			C	O	F	H	D		
0110	TBOS Driver Unit, Dual	Test		0.2	0.4			1,2	A,B
		Remove/ Install	0.1						
		Replace		0.2					
Repair		0.9				1,2	A B		
0111	Target Computer Unit	Test		0.2	0.5			1	A,B
		Remove/ Install	0.1						
		Replace		0.2					
Repair		1.0				1,2	A B		
0112	RSI Unit	Test		0.2	0.5			1	A,B
		Remove/ Install	0.1						
		Replace		0.2					
Repair		1.0				1,2	A B		
0113	TBOS Video Mixer	Test		0.2	0.5			1	A,B
		Remove/ Install	0.1						
		Replace		0.2					
Repair		1.0				1,2	A B		
0114	TBOS Eyepiece Unit	Test		0.2	0.5			1,2	A,B
		Remove/ Install	0.1						
		Replace		0.2					
Repair		1.2				1,2	A B		
0115	Commander Browpad	Remove/ Install	0.1					1,2	A B
		Replace		0.2					
		Repair			0.3				
0115	Storage Cases	Replace		0.2					A A
		Repair		0.5					
0116	Retro Reflector Units and Storage Case	Remove/ Install	0.1					2	A B
		Replace		0.2					
		Repair			0.5				
0117	Off-Vehicle Power Supply	Replace Repair		0.1	1.0	1.0		2,3	A B,C

Section III. TOOLS AND TEST EQUIPMENT REQUIREMENTS

(1) Tool or Tes Equipment Reference Code	(2) Maintenance Level	(3) Nomenclature	(4) National/NATO Stock Number	(5) Tool Number
1	O,F	Off-Vehicle Power Supply		8839062.131
2	F,H	CLS Tool Set No. 1	TBD	TBD
3	H	CLS Tool Set No. 2	TBD	TBD

Section IV. REMARKS

(1) Reference Code	(2) Remarks
A	Organizational Maintenance is performed by a trained PGS troubleshooter or Training Audio Visual Support Center (TAVSC).
B	<p>Direct Support Maintenance is performed by Contractor Logistic Support (CLS):</p> <p>Saab Training Systems c/o The EC Corporation 10511 Harden Valley Road Knoxville, TN 37932</p> <p>General Support Maintenance is performed by Contractor Logistic Support (CLS):</p> <p>Saab Training Systems AB S-561 Huskvarna Sweden</p>